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105/122

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<309> 1999-10-26

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ccggccgcgg accccactct ctgccgttcc ggctgcggct ccgctgccgg tagcgccgtc 180
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Ala Cys Gln Leu Leu Leu Leu His Ser Leu Phe Pro Val Pro Arg Met

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          10                    15                    20

ggc aac tcg gcc tcg aac atc gtc agc ccc cag gag gcc ttg ccg ggc    329
Gly Asn Ser Ala Ser Asn Ile Val Ser Pro Gln Glu Ala Leu Pro Gly
     25                    30                    35

cgg aag gaa cag acc cct gta gcg gcc aaa cat cat gtc aat ggc aac    377
Arg Lys Glu Gln Thr Pro Val Ala Ala Lys His His Val Asn Gly Asn
 40                    45                    50                    55

aga aca gtc gaa cct ttc cca gag gga aca cag atg gct gta ttt gga    425
Arg Thr Val Glu Pro Phe Pro Glu Gly Thr Gln Met Ala Val Phe Gly
               60                    65                    70

atg gga tgt ttc tgg gga gct gaa agg aaa ttc tgg gtc ttg aaa gga    473
Met Gly Cys Phe Trp Gly Ala Glu Arg Lys Phe Trp Val Leu Lys Gly
               75                    80                    85

gtg tat tca act caa gtt ggt ttt gca gga ggc tat act tca aat cct    521
Val Tyr Ser Thr Gln Val Gly Phe Ala Gly Gly Tyr Thr Ser Asn Pro
               90                    95                   100

act tat aaa gaa gtc tgc tca gaa aaa act ggc cat gca gaa gtc gtc    569
Thr Tyr Lys Glu Val Cys Ser Glu Lys Thr Gly His Ala Glu Val Val
     105                   110                   115

cga gtg gtg tac cag cca gaa cac atg agt ttt gag gaa ctg ctc aag    617
Arg Val Val Tyr Gln Pro Glu His Met Ser Phe Glu Glu Leu Leu Lys
120                   125                   130                   135

gtc ttc tgg gag aat cac gac ccg acc caa ggt atg cgc cag ggg aac    665
Val Phe Trp Glu Asn His Asp Pro Thr Gln Gly Met Arg Gln Gly Asn
               140                   145                   150

gac cat ggc act cag tac cgc tcg gcc atc tac ccg acc tct gcc aag    713
Asp His Gly Thr Gln Tyr Arg Ser Ala Ile Tyr Pro Thr Ser Ala Lys
               155                   160                   165

caa atg gag gca gcc ctg agc tcc aaa gag aac tac caa aag gtt ctt    761
Gln Met Glu Ala Ala Leu Ser Ser Lys Glu Asn Tyr Gln Lys Val Leu
               170                   175                   180

tca gag cac ggc ttc ggc ccc atc act acc gac atc cgg gag gga cag    809
Ser Glu His Gly Phe Gly Pro Ile Thr Thr Asp Ile Arg Glu Gly Gln
     185                   190                   195

act ttc tac tat gcg gaa gac tac cac cag cag tac ctg agc aag aac    857
Thr Phe Tyr Tyr Ala Glu Asp Tyr His Gln Gln Tyr Leu Ser Lys Asn
200                   205                   210                   215

ccc aat ggc tac tgc ggc ctt ggg ggc acc ggc gtg tcc tgc cca gtg    905
Pro Asn Gly Tyr Cys Gly Leu Gly Gly Thr Gly Val Ser Cys Pro Val
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ggt att aaa aaa taa ttactcccca catgatgggc ctttgaggtt ccagtaaaaa    960
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aagtacaaag gaatttatac agattgggtt taccgaagta taatctatag gaggcgcgat    1080
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<400> 38
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Pro Gln Glu Ala Leu Pro Gly Arg Lys Glu Gln Thr Pro Val Ala Ala
        35                  40                  45
Lys His His Val Asn Gly Asn Arg Thr Val Glu Pro Phe Pro Glu Gly
    50                  55                  60
Thr Gln Met Ala Val Phe Gly Met Gly Cys Phe Trp Gly Ala Glu Arg
65                  70                  75                  80
Lys Phe Trp Val Leu Lys Gly Val Tyr Ser Thr Gln Val Gly Phe Ala
                85                  90                  95
Gly Gly Tyr Thr Ser Asn Pro Thr Tyr Lys Glu Val Cys Ser Glu Lys
            100                 105                 110
Thr Gly His Ala Glu Val Val Arg Val Val Tyr Gln Pro Glu His Met
        115                 120                 125
Ser Phe Glu Glu Leu Leu Lys Val Phe Trp Glu Asn His Asp Pro Thr
    130                 135                 140
Gln Gly Met Arg Gln Gly Asn Asp His Gly Thr Gln Tyr Arg Ser Ala
145                 150                 155                 160
Ile Tyr Pro Thr Ser Ala Lys Gln Met Glu Ala Ala Leu Ser Ser Lys
                165                 170                 175
Glu Asn Tyr Gln Lys Val Leu Ser Glu His Gly Phe Gly Pro Ile Thr
            180                 185                 190
Thr Asp Ile Arg Glu Gly Gln Thr Phe Tyr Tyr Ala Glu Asp Tyr His
        195                 200                 205
Gln Gln Tyr Leu Ser Lys Asn Pro Asn Gly Tyr Cys Gly Leu Gly Gly
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Thr Gly Val Ser Cys Pro Val Gly Ile Lys Lys
225                 230                 235
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<308> GenBank AW195104
<309> 1999-11-29

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gaaggqtgaa cacaagcatcc ctactatctt cactcagacc ccagaaaacc cagggaaacc    ...
cgacagctcc actcccacca taacttatta ggagataagt cacattttat caacttgcca    420
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<309> 2000-05-22

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gacttttggg ggtcccccat tcctgtccag caacctccca gctcacacct tagcttctac    300
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<210> 43
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<223> Oligonucleotide Primer

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<210> 46
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<223> Oligonucleotide Primer

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<213> Artificial Sequence

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<220>
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<210> 74
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<212> DNA
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<210> 75
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<210> 76
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<212> DNA
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<220>
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<210> 77
<211> 32
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<220>

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<212> DNA
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<220>
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<213> Homo sapien

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<210> 102
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tttgtccttg aagtaacctt tcag   84

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<212> DNA
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ccggggcgtc aacctgcaag gtatgagcat accccccttc                          100

<210> 109
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<212> DNA
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<400> 109
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ggataacctt ggctgtaccc cctggggaag agcagagata tacgtgccag gtggagcacc     60
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tcctacaccg gcggcccctg                                                80
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<220>
<223> Hair pin structure
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<400> 118
cagagagtac ccctcaaccg tgcatgcatg aaacatgcat gcacggtt                 48
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INTERNATIONAL SEARCH REPORT

A. CLASSIFICATION OF SUBJECT MATTER
IPC 7   G06F19/00

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED
Minimum documentation searched (classification system followed by classification symbols)
IPC 7   G06F

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

WPI Data, EPO-Internal

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No
X	WO 99 05323 A (AFFYMETRIX INC) 4 February 1999 (1999-02-04) abstract; claims 1,4 ---	1-100
X	WO 97 40462 A (SPECTRA BIOMEDICAL INC) 30 October 1997 (1997-10-30) page 4, line 2 - line 22 page 7, line 3 -page 8, line 4 ---	1-100
X	WO 98 24935 A (AN GANG ;HARA MARK O (US); RALPH DAVID (US); VELTRI ROBERT (US); U) 11 June 1998 (1998-06-11) page 4, line 27 -page 5, line 6 page 6, line 14 - line 18 --- -/--	1-100

[X] Further documents are listed in the continuation of box C.   [X] Patent family members are listed in annex.

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"&" document member of the same patent family

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT		
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	COLLINS F S ET AL: "A DNA Polymorphism Discovery Resource for Research on Human Genetic Variation" GENOME RESEARCH. vol. 8, 1998, pages 1229-1231, XP002177106 the whole document ---	1-100
P,X	WO 00 51053 A (BRYANT STEPHEN PAUL ;GEMINI RESEARCH LTD (GB); KELLY PAUL JAMES (G) 31 August 2000 (2000-08-31) abstract; claims 1-24 ---	1-100
Y	WO 98 35609 A (HELMS RONALD W ;TOMASKO LISA (US); BIOMAR INTERNATIONAL INC (US);) 20 August 1998 (1998-08-20) abstract; claims 1-25 ---	1-100
Y	SARKAR C ET AL: "Human Genetic Bi-allelic Sequences (HGBASE), a Database of Intra-genic Polymorphisms" MEM INST OSWALDO CRUZ, 'Online! vol. 93, no. 5, September 1998 (1998-09) - October 1998 (1998-10), pages 693-694, XP002177107 Rio de Janeiro Retrieved from the Internet: <URL:http://www.cgb.ki.se/cgb/groups/brook es/publications.htm> 'retrieved on 2001-09-05! the whole document ---	1-100
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	PCT/US 00/28413

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